Properly Planted, Few Plants Are Lost in Transplanting --- The Soil Must Be Firmed About the Roots and the Tops Properly Cut Back

the planting is not properly done.

This is not because people do not inexperienced gard take pains with the plants which they ting back the top. set out, but usually because of lack of experience or information as to just old adage that "a cat can be killed by care" often applies to the setting out of trees and plants. All that is required to make failure certain is plenty

of the wrong kind of care. When a tree or shrub is taken up ferred with; its source of food is entirely cut off and cannot be renewed entil the roots which are left on I have reestablished their close contact with the soil and sent out new feeding roots—the tiny hairlike roots which are almost all broken off or destroyed in the process of transplanting. Like patient after a severe operation, s newly set plant must be given the bes conditions possible in order that i may convalence quickly.

The two biggest causes of failure

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WONDERFULLY

A very large percentage of all trees ir setting out trees and shrubs are, where the roots can be covered with and plants set out perish the first sea- first, the fear that most people have moist soil. They can be kept in this son after they are planted because of putting the plants in firm. Secting the planting is not properly done. ondly, the great reluctance which all but should be planted as soon as posinexperienced gardeners have of cut- sible,

and transplanted it is naturally a severe shock to the whole plant. All of it proved upon investigation, had its normal functions are rudely intermerely been placed in the ground and bone. had the earth gently drawn over their

weight. In case of larger trees, requiring a good sized hole to take the ball of roots, the soil should be filled. Where about. in a little at a time and firmly tamped down with a blunt stick as the hole is gradually filled up. When the plant-ing is completed the tree or shrub should be so firm in the ground that show any signs of loosening the roots.

Many planters cannot bring themselves to "spoil the looks" of the tree or shrub that is to be planted. The reason why, in most cases, it is neces-sary to cut the tops back severely is that a large part of the roots have be done. With care, however, plant-been destroyed, and in order to keep ing can be done successfully as late is weakened and may die.

The first thing to do with plants when they are received is to examine the roots without removing the wrapping of burlap or moss, and if they are at all dry give them a thorough soaking. If they are dried out it may be necessary to place the ball of roots. with their wrappings, in a pail of water for several hours. If possible; preparation for planting should be fully made before the plants arrive. ing up the roots the better. If delay is necessary keep the plants in their original wrapping in a light place with den or some other convenient place

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to plant and care for the garden.

nelp to gardeners. It tells also

low to make proper sprays.

lowering plants as well as fruits.

The ground where the plants are to

In setting out any tree or plant it be set should be carefully prepared in is essential to get it as firmly in the advance. Where individual plants, ground as possible. A plantsman who such as fruit trees or large shrubs, are had sent out a lot of roses received to be set dig a hole several feet in di-back word from his indignant cus-ameter and two or three feet deep. If tomer that "they had all died but one the soil is very poor, a large part of it which, strangely enough, her hus-band, who weighed over two hundred, had stepped on and broken when they however, it will be sufficient to enrich

. Coarse bone is preferable to bone roots and carefully patted down by meal because it lasts for several years hand on the surface. There is very instead of being used up in the first 'ittle danger of getting the soil too season or two. All trees require good rittle danger of getting the soil too firmly about the roots of any plant when setting it out. If it is a small tree or shrub the soil should be pressed down firmly about the roots with the foot, bearing one's entire with the foot, bearing one's entire through it and the roots of the growth of the roots of ing tree can go down as well as make

Where shrubs or perennials are to be set in a "mass" planting, as in a border around the yard or against the house, dig up and fertilize the entire space. Where the soil is rather poor a considerable pull on the top will not and it cannot conveniently be removed and replaced with good soil, an abundance of commercial humus should be applied and forked.

Most fruit trees, shrubs and perennials should be set out as early in the spring as work can conveniently the balance between the roots and top as June. This applies to nursery even part of the top must also be grown stock with a mass of fibrous sacrificed; otherwise the whole plant roots. Native trees or shrubs, or those roots. Native trees or shrubs, or those which have been grown to sell at a very low price, have only a few large roots and will not stand transplanting nearly as successfully

If the soil is at all dry when the plants are being out it will help to water thoroughly. When water is used, however, it should be applied to the roots of the plant. Do not finish planting and then apply the water on the surface. If after enough soil has been put in to hold the plant in place The sconer they can be got into the the hole is filled up with water and ground after receiving them and soakaway it will be more helpful than any amount of water applied on the surface after planting. In fact, it is betthe roots kept moist. Or they may be ter to have the two or three inches of removed and "heeled in"—that is, put soil on the surface left dry, as this into a trench in a corner of the gar- acts as a mulch and prevents the moisture escaping from the soil around

the roots. If very dry weather follows the time of planting further watering may be necessary. This should not be applied at frequent intervals, but whenever water is given it should be enough to soak the soil thoroughly. The most effective way of applying it is to make a small hole as deep as the plant has been set and pour the water into this. so that it reaches the roots directly. For convenience a large flower pot may be placed over the hole. This pergreat clusters of beans, in pods ten inches long. Kentucky Wonder is the name of the variety. It is a delicious BEAN, not a

trying period for the plant to come through. At the beginning of the first dry spell a mulch of old manure, inverted sods or some similar material should be around the newly set plant A mulch of this kind will make any water which may be given severa times as effective as it would be without the mulch.

During the first season particular are should be taken to protect the plants from insects or diseases. They should be closely watched for the appearance of any worms, and these if they appear removed at once. Eating or chewing insects may be controlled by spraying with arsenate of lead; if plant lice or aphids attack the plants hey should be immediately sprayed with a solution of nicotine sulphate drug store or florist who sells insecti-cides. F. F. Rockweil.

GOOD TREE LABELS.

By M. G. KAINS.

Tree labels in considerable variety been tried by the public and found wanting. Scarcely any have proved durable, economical, easy to attach and harmless to the trees. Ordinary wooden ones rapidly turn gray and the writing upon them becomes illegible. Thin sheet copper ones, so often recommended to be written upon by a style or sharp point, by no means make good the claim that they are indestructible, for often after only one year's exposure they will leave nothing but the eyelet to tell where they once vere. Zinc strips are no less disappointing, for they do not long retain the pencil marks; but worse, when any of the copper sulphate compounds as used in spraying with Bordeaux mixure, ammoniacal copper carbonate, &c., come in contact with the zinc, a chemical action takes place and the zinc literally melts away into thin air. Corked glass phials containing tree names and hung in the trees are Plants for Cemeteries, Hot Beds, Balcony Gardens, Planting Annuals, Dahlias, Asters, Gladioli, Plants for North Windows, and Inexpensive Window Boxes, are fairly satisfactory except for the facts that they are hard to see and are too

In commercial orchards, of course trees are rarely labelled because there is a planting chart with the position of each tree and variety plainly marked apon it. This should also be the case in home plantations, but often the ually attached to the tree. And this s a good thing, especially when trees have been grafted, as they often are in amateur gardens, with two or more varieties. In such cases each growing cion should carry its own label.

The label that I have found most satisfactory in all respects is made from nurserymen's six inch wooden la-

LEARN ABOUT GOLDFISH
and aquatio gardens. We make artistle but in plants the very structure of aquariums suitable for the most beautiful the homes conservatories or lawns for keeping goldfish and aquatie plants. We will make any special size to order, with fountsin it desired. We go anywhere to construct aquariums or aquatic ponds. Descriptive circular free. PIONEER AQUARIUM WORKE, Racine, Wisconsin.

and are roused only with difficulty, but in plants the very structure of the individual is affected. As the period of rest approaches the leaves larly the flavor of parsnips and oyster thrown off, the root hairs die, plant is thought to improve when subthe aquariums or aquatic ponds. Descriptive and the protoplasm exudes most of its moisture and becomes more resistant.



Antirrhinum.

Few flowering plants will produce | medium and dwarf varieties with a uing in showy form from early summer to late autumn. There are tall, nine inches apart.

more flowers or more beautiful color-ing in the garden than antirrhinums. All these plants require is well dug Massed in beds, in rows or in clumps, garden soil, not too rich, setting the they are equally satisfactory, contin- tall varieties eighteen inches apart, the medium varieties twelve and the dwarf

clear mark. Then a wire previously period of the year. slipped through the gimlet hole and plants may originally have been imthe hook. These labels are then dipped in a thin paint made of pure linseed oil and white lead and hung up. They must not be painted with a brush, because this would blur the writing. After dipping, the writing will appear words some species of algae develop in Guinea butter bean is not a bean at Warch, some in June, and some others will drip off and leave the clear words in October, though the conditions of After dipping, the writing will appear

uous as when colored white. should be sixteen to eighteen inches growth and bloom in early spring and

By WILLARD N. CLUTE.

Regular periods of rest seem necessary to all forms of life. Young animals spend fully half their time in some underground part. Potatocs, Farewell, with trembling fingers now 1 sleep and when they reach maturity carrots, parsnips and other roots they require at least a third of every stored in the cellar where the tember of this purpose. Plants, like anti-perature varies but little during the Think of me, dear, as loving friend and day for this purpose. Plants, like animals, may be said to rest at night, in- until late in the season and those asmuch as certain processes cease as plants which form their flower buds soon as daylight fades, but the nightly late in autumn refuse to bloom in editor of Horticulture during his last rest of plants is never so striking as that of animals. Some species, to be warmth, but they will bloom readily until after his death. It appeared in sure, make rather noticeable changes in the position of the leaves during the hours of darkness, and this phenomenon is known as the sleep plants. From this one might infer pass through the winter in the form that plants which do not make such of seeds, and though often scattered changes do not have a period of rest. at the beginning of summer remain It is likely, however, that the changes in the position of the leaves have ref- to spring up and grow vigorously in erence to purely mechanical problems the cool, moist days of spring. of the plant and that the repose of the other hand, the seeds of plants one plant is as deep as that of an- that are not easily harmed by the The period of nightly rest is the

animals experience, as a rule, but the weeds simpler forms, and a few of the more highly specialized ones, such as the In regions where wet and dry seawoodchuck, gopher and chipmunk, have a seasonal rest, and this is also experienced by plants. In northern regions, as winter approaches, the wet season, through they may be moisothers creep into some shelter and soon enter into a deathlike state, in which they become torpid, unconscious and absolutely helpless, and this condition continues until warm weather

While the nightly period of rest in of plants, the seasonal rest is just the opposite. The most noticeable difference between sleep and hibercalled in animals, is that in hibernaels and stout wire, say number 11 or tion they seem totally unconscious moisture and becomes more resistant. some cases the changes that go on in

12. Holes are bored with a gimlet It is, however, a mistake to suppose near the pointed end so as to leave that this rest of plants is confined to the blunt end for writing. The names regions of the earth where a cold seaof the varieties are written as large son occurs; as a matter of fact, tropias possible with a soft, rather blunt cal plants have a season of rest also, lead pencil so as to make a broad, only with them it comes at the dry It is likely that the periodic rest of

pressed upon plants in seasons of drought and cold, but the fact remains that many plants now rest when there NEW BUTTER BEAN NOT A BEAN is apparently no necessity to call it forth. Kerner notes that in tropical seas some species of aigze develop in Guinea butter bean is not a bean at seen through the paint. The linseed light, temperature and moisture red and appropriate of would serve the same purpose of making the writing indelible, but the our wild plants there are many spelling the paint. The plants do not red labels would then not be as consider. labels would then not be as conspic- cies that rest in both summer and semble beans in any particular and it winter. The spring beauty and the is a deception to advertise them as long, may be attached to the trees by then vanish from view until another bending them around the limbs with vernal season calls them forth for a bending them around the minos with the pilers locking their free ends. Short time. The crocus, tulip, narble bending the pilers locking their free ends. Short time. The crocus, tulip, narble bending them around the minos with time. The crocus, tulip, narble bending them around the minos with the short time. The crocus, tulip, narble bending them around the minos with the short time. The crocus, tulip, narble bending them around the minos with the short time. The crocus, tulip, narble bending them around the minos with the pilers locking their free ends. Short time. The crocus, tulip, narble bending the minos with time. The crocus, tulip, narble bending the minos with the pilers locking their free ends. Short time. The crocus, tulip, narble bending the minos with the pilers locking their free ends. Short time. The crocus, tulip, narble bending the minos with the pilers locking their free ends. Short time. The crocus, tulip, narble bending the minos with the pilers locking the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with time. The crocus tulip, narble bending the minos with the minos with the peen hung in the trees, the paint he-ing carried from tree to tree in a pail vary the proceedings by flowering in in which they are immersed.

The wires are too stout to have their ends bent with the fingers, therefore their non-removal is insured. The loops should be so large that there what similar habit. It produces its sometimes give a little thought to me. upon which they hang. The cost of making is trifling, the writing Indelble, the label conspicuous and very ous flower stalks push up out of the ible, the label conspicuous and very durable. What more satisfactory la-periods, when they form the so-called spores by taking on a thicker cell wall. which may be purchased from any THE REST PERIOD OF PLANTS. Other fungi form very characteristic winter spores called teleutospores.

That a period of rest is in some way necessary or at least inherent in That I shall ever send you from the past. That I shall ever send you from the past. That I shall ever send you from the past. Yet fate hath willed it so by stern decree, various species that store up food in plants is shown by the behavior of winter will not put out new shoots Remember me for old time's sake adjeut enough in the first mild days of early Horticulture of April 5 spring when the temperature and other conditions seem much less faof vorable. Annual plants commonly dormant through the warm weather cold of winter may grow as soon as

ripe. Among these are the seeds of only form of dormancy that the higher cress, barley, mustard and many like the evening primrose, prickly lettuce and shepherd's purse. sons alternate annuals ripen their seeds before the dry season sets in and these will not grow until another frogs, turtles, salamanders and many tened by an occasional shower in the meantime

During the resting periods of plants the more obvious vegetable processes are held in check, but some activity within the plant may occur. During winter some of the spring flowering animals is more striking than that plants make more or less root growth, wounds callous over and for moved on toward the terminal buds Seeds also in many cases mellow and nation, as the seasonal rest period is ripen after gathering through various chemical changes that occur. The difference between new and old seeds and are roused only with difficulty, may often be told by the taste and

Attach Tree Labels With a Large Loop, So Limbs Will Have Room for Development---Interesting Facts Regarding Period of Rest in Plants

seeds is not entirely chemical. In the ginkgo tree the fruit to all appearinces ripens in autumn, but at the time that it falls from the tree the made no history whatever, so it is hand. Witness this from a garden time that it falls from the tree the sperms have not yet fused with the safe to imagine it was strangled by red tape.

The trees that went West have made history a-plenty; whole orchards have been sold as high as \$10 apiece, the velopment it must lie in the earth for some months longer. The seeds of hawthorns are equally slow to germinate the seed in and guarded day and night, and are even to this day among the standing, the belief it decries is still story a garden book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardeners toe believe that to grafte a cyon with the small ende downwards will make it bring a fruite without a core." It is possible to gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardene-book published in the fifteen hundreds: "It is not worthie of gentlemen's gardeners toe believe that to grafte a cyon with the small ende downwards will make it bring a fruite without a core." It is nate, but nobody so far as known has offered an explanation to fit their case. In some members of the gourd family the length of the dormant period has a curious effect upon the seeds and the plants that spring from them. Young seeds give plants that are inclined to produce vines at the expense of fruit. Accordingly it is the practice of gardeners to use melon and cucumber seeds that are several years

Notwithstanding the fact that plants appear to require a season of rest, inating it have been devised by man. This manipulation of a plant to make it bloom before its proper season is called forcing. Some plants may be more easily forced than others. Among those that most readily yield to such processes are the freezias, tulips, hyacinths, narcissuses and other bulbous plants. In forcing, as in many other instances in plant life, it has been found that heat, drought and cold have almost identically the same effect. Potatoes exposed to the sun for several days will grow much sooner than those not so treated, and also if kept in an icebox for a time they are equally ready to grow. Rhubarb and asparagus dug up in autumn and brought into the warmth of the house are slow to start, but if allowed to freeze first will soon begin to put up new shoots. An investigating German has recently discovered that dipping the plants in boiling water has the same effect as cold or drought. More effective than any of these methods is the process of etherization, in which the plants to be forced are exposed while dormant to the fumes of ether or chloroform for one or two days. Lilacs so treated may be had in full bloom three weeks later. In the case of the spring flowers which rest in summer a warm, moist autumn may act like a second spring and cause them to bloom again. Violets are especially inclined to respond to a mild season in this way, and there is scarcely a year that one cannot pick bunch of violets in October. By searching long enough one may find flowers of all the spring plants in

The so-called New Zealand or New

ADIEU

Remember not the cruel words, unkind; The eare mistakes I made blot from your Forget, dear, every act that caused you pain.
Life is so short—we may not meet again;
Perchance this message brief may be the

This pdem was written by the late December even when given plenty of illness. The manuscript was not found

SEEDLESS FRUIT.

By MARTHA McCULLOCH-WILL-IAMS.

Navel oranges, albeit they approxmate that Dead Sea fruit which tempts the eye, but turns to ashes on the lip." so intrigue the fruit culturists as to set them speculating afresh on the potential breeding out of ores and seeds. The problem, an old me, is not solved by the navel orange -which was brought from South America by a wide awake American Out of seventy young trees which he had secured only four lived of the four one suffered eclipse by

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progeny has overrun it in a little less than fifty years-for its good commercially-as to flavor, the less said the better. What the event may prove the wisest cannot foresee; if ever the navel orange shall be brought to live up to its looks the whole world will be its parish.

Since gardens began gardeners have sighed and tried to produce fruit after ts fashion. There have been many, many curious expedients, such as and medicating its pith while its buds was another. Still another was re-year. A much larger acreage of moving the seed lobes deftly from a watermelons is also being planned.

and are even to this day among the standing, the belief it decries is still sights of the Golden State. Their prevalent among unlettered rural folk. prevalent among unlettered rural folk. And it would surely be interesting to trace back the navel orange's pedigree and find out if it supports or contradicts the old belief.

Delaware farmers are busy bedding sweet potatoes for early sprouting.
Many carloads of seed potatoes have been shipped from Laurel the past week to New Jersey and several Western States. Sweet potatoes dursplitting the stalk of a fruitful shoot ing the past two years have brought tremendous returns to growers, and were in embryo. Layering and trans- the indications are that the acronge planting the rooted stems upside down will be twice as large as it was last

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langeana, variety shell The Rich Red vari-

ety, Lennei, covered

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Hardy in the North

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